Structure Standards Revisions and Additions

Standard No.	Explanation of Revisions	Why Revisions were Required
AEJ1	♦ Increased Thermal Sprayed Coating thickness from 6 mil to 8 mil. ♦ Changed joint angle armor from L 2½" x 2" x $^{3}/_{8}$" to L 2 ½" x 2½" x $^{3}/_{8}$".	❑ Ref: Special Provision dated June 7, 2005 – Thermal Sprayed Coatings (Metallization). ❑ Ref: Memo dated March 3, 2005 - Armored Evazote Joint Standard
BAS1, BAS2, BAS4, & BAS5	♦ Deleted note on temporary drainage. ♦ Revised size of A and B bars. ♦ Revised Bill of Material. ♦ Increased beam bolster height from 4¾" to 5¼". ♦ Added note: "For Elastomeric Concrete, see Special Provisions." ♦ Deleted 2" and 1" dimensions for sawed and formed openings respectively. ♦ On section through slab detail: ♦ Deleted 2½" nominal width dimension of the evazote joint seal. ♦ Added elastomeric concrete headers at joint. ♦ Added notes for use with concrete wearing surface.	❑ Temporary drainage addressed in 2006 Std. Spec. Sect. 422-1. ❑ Ref: Memo dated Aug. 26, 2005 - Bridge Approach Slabs. ❑ Ref: Memo dated Aug. 16, 2004 – Evazote Joint Seal. ❑ Miscellaneous
BAS3 & BAS6	♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes. ♦ Deleted unnecessary End of Curb w/o Shoulder Berm Gutter detail ♦ Rearranged details for improved fit on standard.	❑ Addressed in 2006 Std. Spec. Sect. 1081 ❑ Miscellaneous
BAS7	♦ Deleted note on temporary drainage. ♦ Revised size of A and B bars. ♦ Revised Bill of Material. ♦ Increased beam bolster height from 4¾" to 5¼".	❑ Addressed in 2006 Std. Spec. Sect. 422-1. ❑ Ref: Memo dated Aug. 26, 2005 - Bridge Approach Slabs.
BAS8	♦ Increased embedment length of S1, S2, and S3 bars from 7" to 9". ♦ Revised Bill of Material.	❑ Miscellaneous – revised for consistency with other BAS standards.

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Standard No.	Explanation of Revisions	Why Revisions were Required
BAS9	♦ Deleted unnecessary End of Curb w/o Shoulder Berm Gutter detail. ♦ Rearranged details for improved fit on standard. ♦ Removed 2" wearing surface dimension and the barrier rail height dimension.	❑ Miscellaneous
BAS10	♦ Added two details showing pre-sawed and sawed expansion joint. ♦ Added Bill of Material for elastomeric concrete.	❑ Miscellaneous
BAS11	♦ Adopted new standard for use with integral abutments	❑ Added Standard
BMR1	♦ Added note requiring grooved contraction joints in exposed faces of the parapet. ♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes.	❑ Ref: Memo dated December 10, 2004 - Tooled Contraction Joints In Parapets and Sidewalks. ❑ Addressed in 2006 Std. Spec. Sect. 1081.
BMR2	♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes. ♦ Deleted "Expansion Condition" and "Standard Condition" from detail showing plan of rail and end post.	❑ Adhesively anchored bolts or dowels addressed in 2006 Std. Spec. Sect. 1081. ❑ Miscellaneous
BMR3	♦ Added note on control of shrinkage cracking in parapets.	❑ Ref: Memo dated December 10, 2004 - Tooled Contraction Joints In Parapets and Sidewalks.
BMR4	♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes.	❑ Addressed in 2006 Std. Spec. Sect. 1081.
BMR5	♦ Revised note under detail showing section through rail to refer to BMR6 in lieu of BMR7	❑ Correction
BMR7	♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes. ♦ Revised Note D to refer to BMR6 in lieu of "Metal Rail Sheet."	❑ Addressed in 2006 Std. Spec. Sect. 1081. ❑ Miscellaneous
BS1	♦ Increased pan depth from 8" to 9" to improve the pan drainage slope.	❑ Ref: Memo dated November 16, 2004 - Bridge Scupper Standard

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Standard No.	**Explanation of Revisions**	**Why Revisions were Required**
BS2	♦ Added 2 - T2 bars.	❑ Ref: Memo dated November 16, 2004 - Bridge Scupper Standard
CBR1	♦ Position of the New Jersey barrier rail reinforcement adjusted to provide 2¾" cover on both the front and back faces. ♦ Increased slab overhang behind the barrier rail from 1" to 1½". ♦ Increased the chamfer on the top exterior edge of slab from ½" to ¾". ♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes. ♦ Corrected 11⅝" dimension to 11¾" in the end view of the end of rail details ♦ Deleted provision for beam bolster height in the Section Through Rail detail, since it may be different on either side of bridge deck.	❑ Ref: Memo dated February 12, 2004 – New Jersey Shape Barrier Rail and Slab Overhang ❑ Addressed in 2006 Std. Spec. Sect. 1081. ❑ Miscellaneous
EB1, EB2, EB3 & EB4	♦ Deleted reference to special provision for elastomeric bearings in the notes.	❑ Addressed in 2006 Std. Spec. Sect. 1079-2
EJS1	♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes.	❑ Addressed in 2006 Std. Spec. Sect. 1081.
GRA1	♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes.	❑ Addressed in 2006 Std. Spec. Sect. 1081.
GRA2	♦ Adopted standard for use with B-77 guardrail anchor unit.	❑ Ref: Roadway Design Unit Memo dated June 15, 2006 – Use of Guardrail Anchor Units (GRAU) B-77, B-83, and Type III.
GRW1	♦ Adopted new standard for concrete gravity retaining walls.	❑ Old roadway standard was revised by the Geotechnical Unit and adopted as a structure standard.
IN2 & IN3	♦ Updated the index sheet and added a new sheet (IN3) due to an increase in the number of standards.	❑ Miscellaneous

Structure Standards Revisions and Additions		
Standard No.	**Explanation of Revisions**	**Why Revisions were Required**
PCBB1	♦ Adopted new standards for box beams. ♦ Deleted reference to special provision for elastomeric bearings in the notes. ♦ Delete the note on the hold-down system. ♦ Revised note addressing payment of #3 bars in the wearing surface to include payment of all reinforcing in the wearing surface. ♦ Revised note to read "…ends of box beams…" in lieu of "…slab sections…" ♦ Indicated that detail at end bent is for both expansion and fixed ends. ♦ Added detail to show concrete overlay in a "fixed/fixed" condition over a bent.	❑ Ref: Memo dated July 11, 2005 – Box Beam Guidelines. ❑ Addressed in 2006 Std. Spec. Sect. 1079-2. ❑ Addressed in 2006 Std. Spec. Sect. 1078-9. ❑ Ref: Memo dated April 4, 2006 – Bridge Overlays. ❑ Miscellaneous
PCBB2, PCBB3, PCBB4, PCBB5, & PCBB6	♦ Adopted new standards for box beams	❑ Ref: Memo dated July 11, 2005 – Box Beam Guidelines.
PCBB8	♦ Adopted new standards for box beams ♦ Revised detail for concrete wearing surface to reflect revised policy on reinforcing steel layout. ♦ Added bill of material for concrete wearing surface. ♦ Reorganized details on the standard to accommodate a plan view of the concrete wearing surface.	❑ Ref: Memo dated July 11, 2005 – Box Beam Guidelines. ❑ Ref: Memo dated April 4, 2006 – Bridge Overlays. ❑ Miscellaneous

Structure Standards Revisions and Additions		
Standard No.	**Explanation of Revisions**	**Why Revisions were Required**
PCG1, PCG2, PCG3, & PCG6	♦ Added note referencing the special provision for prestressed concrete members. ♦ Added details for reinforcing steel around the holes in the web for the steel diaphragm assembly. ♦ Deleted notes referencing the following: ♦ Special provision for vertical cracks ♦ Special provision for prestressed concrete members ♦ Special provision for epoxy protective coating ♦ Added note referencing the special provision for crack repair of prestressed concrete girders. ♦ Deleted the 4000 psi minimum concrete strength required at transfer. ♦ Deleted the 5000 psi concrete strength in the bill of material. ♦ Revised detail "Section C-C" and the bill of material to show "S" bars in lieu of "S8*" bar for cases where "S9*" bars are also required. ♦ Revised note under girder elevation to reference partial elevation details for additional "S" bars.	❑ Ref: Memo dated May 2, 2005 - Prestressed Concrete Member Standard ❑ Ref: Memo dated October 24, 2005 – Intermediate stee diaphragms for AASHTO Shape Girders. ❑ Addressed in the 2006 Std. Spec. Sects. ❑ New special provision ❑ To be filled in as required by design. ❑ Miscellaneous ➢ *"S9" and "S10" respectively for PCG3, and "S11" and "S12" respectively for PCG6.
PCG4 & PCG5	♦ Added details for reinforcing steel around the holes in the web for the steel diaphragm assembly. ♦ Deleted the 5000 psi concrete strength in the bill of material. ♦ Revised detail "Section C-C" and the bill of material to show "S" bars in lieu of "S8"* bar for cases where "S9"* bars are also required. ♦ Revised note under girder elevation to reference partial elevation details for additional "S" bars.	❑ Ref: Memo dated October 24, 2005 – Intermediate stee diaphragms for AASHTO Shape Girders. ❑ To be filled in as required by design. ❑ Miscellaneous

Structure Standards Revisions and Additions

Standard No.	Explanation of Revisions	Why Revisions were Required
PCG7, PCG8, PCGD7, & PCGD8	♦ Deleted the 5000 psi concrete strength in the bill of material. ♦ Reduced length of leg on "S6" bar to 2'-11½" from 3'-0½", and revised bill of material accordingly.	❑ To be filled in as required by design ❑ Miscellaneous
PCG9, PCG10, PCGD9, & PCGD10	♦ Deleted the 5000 psi concrete strength in the bill of material. ♦ Reduced length of leg on "S6" bar to 3'-0½" from 3'-1½", and revised bill of material accordingly.	❑ To be filled in as required by design ❑ Miscellaneous
PCG11	♦ Deleted notes referencing the following: ♦ Special provision for vertical cracks ♦ Special provision for prestressed concrete members ♦ Special provision for epoxy protective coating ♦ Added note referencing the special provision for crack repair of prestressed concrete girders. ♦ Deleted the 4000 psi minimum concrete strength required at transfer in the notes.	❑ Addressed in the 2006 Std. Spec. Sect. 1078. ❑ New special provision. ❑ To be filled in as required by design.
PCG12	Revised note on direct tension indicators to reference Std. Spec. Sect. 440-8 in lieu of Sect. 440-10.	❑ Consistency with 2006 Std. Spec.
PCP1	♦ Added note referencing the special provision for prestressed concrete members. ♦ Deleted notes referencing the following: ♦ Special provision for steel pile tips ♦ Special provision of prestressed concrete members.	❑ Ref: Memo dated May 2, 2005 - Prestressed Concrete Member Standard ❑ Addressed in the 2006 Std. Spec. Sect. 1078
PCP2, PCP3 & PCP4	♦ Added note referencing the special provision for prestressed concrete members. ♦ Deleted notes referencing the following: ♦ Special provision for steel pile tips ♦ Special provision of prestressed concrete members.	❑ Ref: Memo dated May 2, 2005 - Prestressed Concrete Member Standard ❑ Addressed in the 2006 Std. Spec. Sect. 1078.

Structure Standards Revisions and Additions

Standard No.	Explanation of Revisions	Why Revisions were Required
PCS1 & PCS2	♦ Removed bond breaking tape over joints and added joint sealer material over the backer rod in the joint opening ♦ Increased the clear distance of the "S3" bars to the exterior face of cored slab unit from 3¼" to 3¾". ♦ Deleted height of "S3" bar. ♦ Deleted "Detail A." ♦ Revised end bent detail to show backer rod near the bottom of the slab unit and the gap between the approach slab and the cored slab unit filled with grout. ♦ Added detail showing fixed/fixed condition at a bent.	❑ Ref: Memo dated October 28, 2004 - Bond Breaking Tape On Cored Slabs. ❑ Ref: Memo dated February 12, 2004 - New Jersey Shape Barrier Rail and Slab Overhang. ❑ To be filled in based on thickness of wearing surface. ❑ Incorporated "Detail A" into the detail showing the fixed/expansion condition at a bent. ❑ Miscellaneous
PCS3	♦ Added note referencing the special provision for prestressed concrete members. ♦ Removed bond breaking tape over joints and added joint sealer material over a backer rod in the joint opening ♦ Increased the clear distance of the "S3" bars to the exterior face of cored slab unit from 3¼" to 3¾". ♦ Increased cored slab overhang behind the barrier rail from ½" to 1". ♦ Deleted notes referencing the following: ♦ Special provision for prestressed concrete members ♦ Special provision for epoxy protective coating ♦ Special provision for elastomeric bearings ♦ Deleted the 4000 psi minimum concrete strength required at transfer. ♦ Deleted the 5000 psi concrete strength in the bill of material.	❑ Ref: Memo dated May 2, 2005 - Prestressed Concrete Member Standard ❑ Ref: Memo dated October 28, 2004 - Bond Breaking Tape on Cored Slabs ❑ Ref: Memo dated February 12, 2004 - New Jersey Shape Barrier Rail and Slab Overhang ❑ Addressed in the 2006 Std. Spec. Sect. 1078 ❑ To be filled in as required by design.

	Structure Standards Revisions and Additions	
Standard No.	**Explanation of Revisions**	**Why Revisions were Required**
PCS3 (contd)	♦ Deleted the dimensions that are based on the thickness of the wearing surface on the detail showing the section through the rail. ♦ Deleted dimensions that are based on the thickness of the wearing surface in the bill of material for bar types 1 and 2, and deleted the "S3" total bar length.	❑ To be filled in based on thickness of wearing surface.
PDP1	♦ Added note referencing the special provision for prestressed concrete members. ♦ Removed note referencing the special provision for prestressed concrete members.	❑ Ref: Memo dated May 2, 2005 - Prestressed Concrete Member Standard ❑ Addressed in the 2006 Std. Spec. Sect. 1078
SN	♦ Deleted reference to Class S concrete for underwater footings. ♦ Deleted reference to #2 bars. ♦ Deleted note on hauling structural steel beams and girders. ♦ Updated year from 2002 to 2006.	❑ Miscellaneous ❑ Addressed in special provision for shipping structural steel members.
SP1	♦ Added toe of slope station and elevation. ♦ General note reworded slight for clarity.	❑ Ref: Memo dated August 3, 2004 – Slope Protection Elevations.
SPP1 SPP2 SPP3 SPP4 & SPP5	♦ Adopted new standard drawings. Existing SPP1 was renamed SPP3. ♦ Added "Galvanized" to the title of the detail showing the pipe pile in elevation. ♦ Included galvanizing as incidental to the cost galvanized steel piles.	❑ Ref: Memo dated October 14, 2005 – Steel Pipe Piles. ❑ Consistency with pay item.
SSJ1	♦ Deleted reference to special provision for adhesively anchored bolts or dowels from notes.	❑ Adhesively anchored bolts or dowels addressed in 2006 Std. Spec. Sect. 1081.